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FIGURE 1

BFA4 cDNA Sequence

ATG GTCCGGAAAAAGAACCCCCCTCTGAGAAACGTTGCAAGTGAAGGCGAGGGCCAGATCCTGGAGCCTATAGGTACAGAAAGCAAGGT
ATCTGGAAAGAACAAAGAATTCTCTGCAGATCAGATGTCAGAAAATACGGATCAGAGTGATGCTGCAGAACTAAATCATAAGGAGGAACA
5 TAGCTTGCATGTTCAAGATCCATCTTCTAGCAGTAAGAAGGACTTGAAAAGCGCAGTTCTGAGTGAGAAGGCTGGCTTCAATTATGAAAG
CCCCAGTAAGGGAGGAAAACCTTCCCTCCTTCCGCATGATGAGGTGACAGACAGAAATATGTTGGCTTCTCATTTCAGCTGCTGGGGG
AGTCTGTGAGCCCTTGAAGTCTCCGCAAAGAGCAGAGGCAGATGACCTCAAGATATGGCTGCACCCCTCAGGGGACTCACTGGAGAC
AAAGGAAGATCAGAAGATGTACCAAAGGCTACAGAGGAAACAGGGCAAGCACAGAGTGGTCAAGCCAATTGTCAAGGTTTGAGCCAGT
TTCAGTGGCCTCAAAAAACCACAAGTGCCTTCAGATGGGGGTGTAAGACTGAATAAATCCAAAACCTGACTTACTGGTGAATGACAACCC
10 AGACCCGGCACCTCTGTCTCCAGAGCTTCAGGACTTTAAATGCAATATCTGTGGATATGGTTACTACGGCAACGACCCACAGATCTGAT
TAAGCACTTCCGAAAGTATCACTTAGGACTGCATAACCGCACCAGGCAAGATGCTGAGCTGGACAGCAAAATCTTGGCCCTTCATAACAT
GGTGCAGTTCAGCCATTCCAAAGACTTCCAGAAGGTCAACCGTTCTGTGTTTTCTGGTGTGCTGCAGGACATCAATCTTCAAGGCCTGT
TTTACTAAATGGGACCTATGATGTGCAGGTGACTTCAGGTGGAACATTATTGGCATTGGACGGAAAACACCAGATTGCCAAGGGAACAC
CAAGTATTTCCGCTGTAAATTTCTGCAATTTCACTTATATGGGCAACTCATCCACCGAATTAGAACAACATTTTCTTCAGACTCACCCAAA
15 CAAAATAAAAGCTTCTCTCCCTCCTCTGAGGTTGCAAAACCTTCAGAGAAAACTCTAACAAGTCCATCCCTGCAGTTCATCCAGTGA
TTCTGGAGACTTGGGAAAATGGCAGGACAAGATAACAGTCAAAGCAGGAGATGACACTCTGTTGGGTACTCAGTGCCCATAAAGCCCT
CGATTCTCTAGACAAAAATGGTACAGAGGCCACCAGTTACTACTGGTGTAAATTTTGTAGTTTCAGCTGTGAGTCATCTAGCTCACTTAA
ACTGCTAGAACATTATGGCAAGCAGCAGGAGCAGTGCAGTGCAGGCGCCTTAATCCAGAGTTAAATGATAAGCTTTCAGGGGGCTCTGT
CATTAAATCAGAATGATCTAGCCAAAAGTTCAGAAGGAGAGACAATGACCAAGACAGACAAGAGCTCGAGTGGGGCTAAAAAGAAGGACTT
20 CTCCAGCAAGGGAGCCGAGGATAATATGGTAACGAGCTATAATTGTCACTTCTGTGACTTCCGATATTCAAAAAGCCATGGCCCTGATGT
AATTGTAGTGGGGCCACTTCTCCGTCATTATCAACAGCTCCATAACATTCACAAGTGTACCATTAAACACTGTCCATTCTGTCCAGAGG
ACTTTGCAGCCAGAAAAGCACCTTGGAGAAATTACTTATCCGTTTGCTGTAGAAAAAGTAATTGTTCCCACTGTGCACTCTTGCTTCT
GCACTTGTCTCCTGGGGCGGCTGGAAGCTCGCGAGTCAAAATCAGTGCCATCAGTGTTCATTACACACCCCTGACGTAGATGTACTCCT
CTTTCACTATGAAAGTGTGCATGAGTCCCAAGCATCGGATGTCAAACAAGAAGCAAATCACCTGCAAGGATCGGATGGGCAGCAGTCTGT
25 CAAGGAAAGCAAAGAACACTCATGTACCAAATGTGATTTTATTACCAAGTGAAGAAGAGATTTCCCGACACTACAGGAGAGCACACAG
CTGCTACAAATGCCGTCACTGAGTTTTACAGCTGCCGATACCTAGTCACTACTGGAGCACTTCAACACTGTTCACTGCCAGGACAGGA
CATCACTACAGCCAAACGGGGAAGAGGACGGTCATGCCATATCCACCATCAAAGAGGAGCCAAAATTGACTTCAGGGCTACAATCTGCT
AACTCCAGACTCTAAAATGGGAGAGCCAGTTTCTGAGAGTGTGGTGAAGAGAGAGAAGCTGGAAGAGAAGGACGGGCTCAAAGAGAAAGT
TTGGACCGAGAGTTCCAGTGATGACCTTCGCAATGTGACTTGGAGAGGGGCAGACATCCTGCGGGGGAGTCCGTATACACCCAAGCAAG
30 CCTGGGGCTGCTGACGCCTGTGTCTGGCACCCAAGAGCAGACAAAGACTCTAAGGGATAGTCCCAATGTGGAGGCGCCCATCTGGCGCG
ACCTATTTATGGCTTGGCTGTGGAAACCAAGGGATTCTGCGAGGGGGCGCCAGCTGGCGGAGAGAAGTCTGGGGCCCTCCCCAGCAGTA
TCCTGCATCGGGAGAAAAAAGTCCAAGGATGAATCCCACTCCCTGTTACGGAGGCGTAGAGGCTCCGGTGTTTTTTGTGCCAATTGCCT
GACCACAAAGACCTCTCTCTGGCGAAAGAATGCAAATGGCGGATATGTATGCAACGCGTGTGGCCTCTACCAGAAGCTTCACTCGACTCC
CAGGCCTTTAAACATCATTAACAAAACAACGGTGAGCAGATTATTAGGAGGAGAACAAGAAAGCGCCTTAACCCAGAGGCACTTCAGGC
35 TGAGCAGCTCAACAAACAGCAGAGGGGCAGCAATGAGGAGCAAGTCAATGGAAGCCCGTTAGAGAGGAGGTGAGAAGATCATCTAAGTGA
AAGTCAACAGAGAGAAATTCAGTCCCGCCTAAGTAAATACGAAGCCAGGGTTTCACTGACTAAAAGCCATTCTGCTCAGCAGCCAGT
CCTGGTCAGCCAAACTCTGGATATTACAAAAGGATGCAACCTTTGCACATTGAGATAAAAAGTCTCAGGAAAGTACTGGAGATCCAGG
AAATAGTTTCATCCGTATCTGAAGGGAAAGGAAGTTCTGAGAGAGGCACTCTATAGAAAAGTACATGAGACCTGCGAAACACCCAAATTA
TTCACCACAGGAGCCCTATTGAAAAGTACCAGTACCCACTTTTTGGACTTCCCTTTGTACATAATGACTTCCAGAGTGAAGCTGATTG
40 GCTGCGGTTCTGGAGTAAATATAAGCTCTCCGTTTCTGGGAATCCGCACTACTTGAGTCACGTGCCTGGCCTACCAAATCCTTGCCAAAA
CTATGTGCCTTATCCACCTTCAATCTGCCTCCTCATTTTTAGCTGTTGGATCAGACAAATGACATTCTCTAGATTGCGGATCAAGCA
TTCCAGACCTGGGCCAACTGCAACGGTGCCTCAAGGAGAAAACGAAGGCACCAACCAATGTAAAAATGAAGGTCCCTTGAATGTAGT
AAAAACAGAGAAAGTTGATAGAAGTACTCAAGATGAACCTTTCAACAAAATGTGTGCACTGTGGCATTGTCTTTCTGGATGAAGTGATGTA
TGCTTTGCATATGAGTTGCCATGGTGACAGTGGACCTTCCAGTGCAGCATATGCCAGCATCTTGCACGGACAAATATGACTTCACAAC
45 ACATATCCAGAGGGGCTGCATAGGAACAATGCACAAGTGAAAAAATGAAAAACCTAAAGAGTAA*

FIGURE 2

BFA4 Amino Acid Sequence

MVRKKNPPLRNVASEGEGQILEPIGTESKVS GKNKEFSADQMSENTDQSDAAELNHKEEHS LHVQDPSSS
SKKDLKSAVLSEKAGFNYESPSKGGNFPSFPHDEVTDNRMLAFS FPAAGGVCEPLKSPQRAEADDPQDMA
5 CTPSGDSLETKEDQKMSPKATEETGQAQSGQANCQGLSPVSVASKNPQVPSDGGVRLNKS KTDLLVNDNP
DPAPLSPELQDFKCNICGYGYGNDPTDLIKHFRKYHLGLHNRT RQDAELDSKILALHNMVQF SHSKDFQ
KVNRSVFSGVLQDINSSRPVLLNGTYDVQVTSGGTFIGIGRKT PDCQGNTKYFRCKFCNFTYMGNSSTEL
EQHFLQTHPNKIKASLPSSEVAKPSEKNSNKSIPALQSSDSGDLGKWQDKITVKAGDDTPVGYSVPIKPL
DSSRQNGTEATSYWCKFCFSCESSSSSLKLEHYGKQHGA VQSGGLNPELNDKLSRGSVINQNDLAKSS
10 EGETMTKTDKSSSGAKKKDFSSKGAEDNMVTSYNQCFCDFRYSKSHGPDVIVVGPLL RHYQQLHNIHKCT
IKHCPFCPRGLCSPEKHLGEITYPFACRKSNC SHCALLEHLSPGAAGSSRVKHQCHQCSFTTPD VDVLL
FHYESVHESQASDVKQEANHLQGS DGQQS VKESKEHSCTKCDFITQVEEEISRHYRRAHSCYKCRQCSFT
AADTQSLLEHFNTVHCQE QDITTANGEEDGHAISTIK EEPKIDFRVYNLLTPDSKMGE PVSESVVKREKL
EEKDGLKEK VWTESSSDDL RNV TWRGADILRGSPSYTQASLGLLTPVSGTQEQT KTLRDS PNVEAAHLAR
15 PIYGLAVETKGFLQ GAPAGGEKSGALPQQYPASGENKSKDESQSLLRRRRRGSGVFCANCLTTK TSLWRKN
ANGGYVCNACGLYQKLHSTPRPLNIIKQNNGEQIIRRRTRKRLNPEALQAEQLNKQQRGS NEEQVNGSPL
ERRSEDHLTESHQREIPLPSLSKYEAQGS LTKSHSAQQPVLVSQTLDIHKRMQPLHIQIKSPQESTGD PG
NSSSVSEGGKSSSERGSPIEKYM RPAKHPNYSPPGSPIEKYQYPLFGLPFVHND FQSEADWLRFW SKYKLS
VPGNPHYLSHVPGLPNPCQNYVPYPTFNLPPHFS AVGSDNDIPLDLAIKHSRPGPTANGASKEKTKAPPN
20 VKNEGPLNVVKTEKVD RSTQDELSTKCVHCGIVFLDEV MYALHMSCHGDSGPFQCSI CQHLCTDKYDFTT
HIQRGLHRNNAQVEKNGKPKE

FIGURE 3

A. BCY1 cDNA Sequence

[illegible]

B. BCY1 Amino Acid Sequence

45	MAELRLKGSS	NTTECVPVPT	SEHVAEIVGR	QGCKIKALRA	KTNTYIKTPV	RGEEPVFMVT
	GRREDVATAR	REIISAAEHF	SMIRASRNKS	GAAFGVAPAL	PGQVTIRVRV	PYRVVGLVVG
	PKGATIKRIQ	QQTNTYIITP	SRDRDPVFEI	TGAPGNVERA	REEIETHIAV	RTGKILEYNN
	ENDFLAGSPD	AAIDSRYSDA	WRVHQPCKP	LSTFRQNSLG	CIGECGVDSG	FEAPRLGEQG
	GDFGYGGYLF	PGYGVGKQDV	YYGVAETSP	LWAGQENATP	TSVLFSSASS	SSSSSAKARA
50	GPPGAHRSPA	TSAGPELAGL	PRRPPGEPLQ	GFSKLGGGGL	RSPGGGRDCM	
	VCFESEVTAA	LVPCGHNLC	MECAVRICER	TDPECPVCHI	TAAOAIRIFS	

FIGURE 4

ATGACAAAGAGGAAGAAGACCATCAACCTTAATATACAAGACGCCAGAGGACTGCTCTACACTGGGCCTGTGTCAAT
 GGCCATGAGGAAGTAGTAACATTTCTGGTAGACAGAAAGTGCCAGCTTGACGTCCTTGATGGCGAACACAGGACACCTCTG
 5 ATGAAGGCTCTACAATGCCATCAGGAGGCTTGTGCAAATATTCTGATAGATTCTGGTGCCGATATAAAATCTCGTAGATGTG
 TATGGCAACATGGCTCTCCATTATGCTGTTTATAGTGAGATTTTGTGTCAGTGGTGCCAAAAGTCTGTGCCATGGTGCACTC
 ATCGAAGTGCACAACAAGGCTAGCCTCACACCACTTTTACTATCCATAACGAAAAGAAGTGAGCAAATTTGTGGAATTTTGTG
 CTGATAAAAAATGCAAATGCGAATGCAGTTAATAAGTATAAAATGCACAGCCCTCATGCTTGTGTATGTGCATGGATCATCA
 GAGATAGTTGGCATGCTTCTTCAGCAAAATGTTGACGCTTTGTGTCAGATATATGTGGAGTAACTGCAGAACATTATGCT
 10 GTTACTTGTGGATTTTCATCACATTCATGAACAAATTATGGAATATATACGAAAATTATCTAAAAATCATCAAAATACCAAT
 CCAGAAGGAACATCTGCAGGAACACCTGATGAGGCTGCACCCCTTGGCGGAAAGAACACCTGCACAGCTGAAAAGCTTGGTG
 GAAAAAACACCTGATGAGGCTGCACCCCTTGGTGGAAAGAACACCTGCACGGCTGAAAGCTTGGTGGAAAAAACACCTGAT
 GAGGCTGCATCCTTGGTGGAGGGAACATCTGCACAAATTCATGTTTGGAGAAAGCGACATCTGGAAAGTTTGAACAGTCA
 GCAGAAGAAACACCTAGGGAAATTACGAGTCTTGCAAAAGAAACATCTGAGAAATTTACGTGGCCAGCAAAAGGAAGACCT
 15 AGGAAGATCGCATGGGAGAAAAAGAAGACACACCTAGGGAAATTATGAGTCCCGCAAAAGAAACATCTGAGAAATTTACG
 TGGGCAGCAAAAGGAAGACCTAGGAAGATCGCATGGGAGAAAAAGAAGAACACCTGTAAAGACTGGATGCGTGGCAAGAGTA
 ACATCTAATAAAACTAAAGTTTGGAAAAAGGAAGATCTAAGATGATTGCATGTCCTACAAAAGAATCATCTACAAAAGCA
 AGTGCCAAATGATCAGAGGTTCCCATCAGAATCCAAACAAGAGGAAGATGAAGAATATTCTGTGATTCTCGGAGCTTGGTG
 GAGAGTTCTGCAAAGATTCAAGTGTGTATACCTGAGTCTATATATCAAAAAGTAATGGAGATAAAATAGAGAAGTAGAAGAG
 20 CCTCCTAAGAAGCCATCTGCCTTCAAGCCTGCCATTGAAATGCAAACTCTGTTCCAAATAAAGCCTTTGAATTGAAGAAT
 GAACAAACATTGAGAGCAGATCCGATGTTCCACCAGAATCCAAACAAGGACTATGAAGAAAATTCTTGGGATTCTGAG
 AGTCTCTGTGAGACTGTTTACAGAAGGATGTGTGTTTACCCAAGGCTACACATCAAAAAGAAATAGATAAAATAAATGGA
 AAATTAGAAGAGTCTCCTAATAAAGATGGTCTTCTGAAGGCTACCTGCGGAATGAAAGTTTCTATTCCAACCTAAAGCCTTA
 GAATTGAAGGACATGCAAACTTTCAAAGCGGAGCCTCCGGGGAAGCCATCTGCCTTCGAGCCTGCCACTGAAATGCAAAAG
 25 TCTGTCCCAATAAAGCCTTGGAAATTGAAAAATGAACAAACATGGAGAGCAGATGAGATACTCCCATCAGAATCCAAACA
 AAGGACTATGAAGAAAATTCTTGGGATACTGAGAGTCTCTGTGAGACTGTTTACAGAAGGATGTGTGTTTACCCAAGGCT
 GCGCATCAAAAAGAAATAGATAAAATAAATGGAATAATTAGAAGGGTCTCCTGTAAAGATGGTCTTCTGAAGGCTAACTGC
 GGAATGAAAGTTTCTATTCCAACCTAAAGCCTTAGAATTGATGGACATGCAAACTTTCAAAGCAGAGCCTCCCGAGAAGCCA
 TCTGCCTTCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAAAGCCTTGAATGGAAGATGAACAAACATTGAGA
 30 GCAGATGAGATACTCCCATCAGAATCCAAACAAGGACTATGAAGAAAAGTTCTTGGGATTCTGAGAGTCTCTGTGAGACT
 GTTTACAGAAGGATGTGTGTTTACCCAAGGCTACACATCAAAAAGAAATAGATAAAATAAATGGAATAATTAGAAGAGTCT
 CCTGTAATGATGGTTTCTGAAGGCTCCCTGAGAGTGAAGTTTCTATTCCAACCTAAAGCCTTAGAATTGATGGACATG
 CAAACTTTCAAAGCAGAGCCTCCCGAGAAGCCATCTGCCTTCGAGCCTGCCATTGAAATGCAAAAGTCTGTTCCAAATAA
 GCCTTGAATGGAAGATGAACAAACATTGAGAGCAGATCAGATGTTCCCTTCAGAATCAAAAACAAAGAGTTTGAAGAA
 35 AATTCTTGGGATTCTGAGAGTCTCCGTGAGACTGTTTACAGAAGGATGTGTGTGTACCCAAGGCTACACATCAAAAAGAA
 ATGGATAAAATAAGTGGAAAATTAGAAGATTCAACTAGCCTATCAAAAATCTTGGATACAGTTTATTCTGTGAAAGAGCA
 AGGGAACCTTCAAAAAGATCACTGTGAACAACGTACAGGAAAAATGGAACAAATGAAAAAGAAGTTTTGTGTACTGAAAAAG
 AAAGTGTGAGAGCAAAAGAAATAAAATCACAGTTAGAGAACC AAAAGTTAAATGGGAACAAGAGCTCTGCAGTGTGAGA
 TTGACTTTAAACCAAGAAGAAGAGAAGAGAAGAAATGCCGATATATTAATGAAAAAATTAGGGAAGAATTAGGAAGAATC
 40 GAAGAGCAGCATAGGAAAAGAGTTAGAAGTGAAACAACAACCTGAAACAGGCTCTCAGAATACAAGATATAGAATTGAAGAGT
 GTAGAAAGTAATTTGAATCAGGTTTCTCACACTCATGAAAATGAAAAATTATCTCTTACATGAAAATTGCATGTTGAAAAAG
 GAAATTGCCATGCTAAAACCTGGAAATAGCCACACTGAAACACCAATACCAGGAAAAGGAAAAATAAATACTTTGAGGACATT
 AAGATTTTAAAGAAAAGAATGCTGAACCTTCAGATGACCTTAAAGCTGAAAGAGGAATCATTAATAAAGGGCATCTCAA
 TATAGTGGGCAGCTTAAAGTTCTGATAGCTGAGAACACAATGCTCACTTCTAAATTGAAGGAAAAACAAGACAAAGAAATA
 45 CTAGAGGCAGAAATTGAATCACACCATCCTAGACTGGCTTCTGCTGTACAAGACCATGATCAAAATTGTGACATCAAGAAAA
 AGTCAAGAACCTGCTTTCCACATTGCAGGAGATGCTTGTGTTGCAAGAAAAATGAATGTTGATGTGAGTAGTACGATATAT
 AACAATGAGGTGCTCCATCAACCACTTTCTGAAGCTCAAAGGAAATCCAAAGCCTAAAAATTAATCTCAATTATGCAGGA
 GATGCTCTAAGAGAAAATACATTGGTTTTCAGAACATGCACAAAGAGACCAACGTGAAACACAGTGTCAAAATGAAGGAAGCT
 GAACACATGTATCAAAACGAACAAGATAATGTGAACAAACACACTGAACAGCAGGAGTCTCTAGATCAGAAATTATTTCAA
 50 CTACAAAGCAAAAATATGTGGCTTCAACAGCAATTAGTTTCATGCACATAAGAAAGCTGACAACAAAAGCAAGATAACAATT
 GATATTCAATTTCTTGAAGGAAAAATGCAACATCATCTCTAAAGAGAAAAATGAGGAGATATTTAATTACAATAACCAT
 TTAAAAAACCGTATATATCAATATGAAAAAGAGAAAGCAGAAACAGAAAACCTCATGA

FIGURE 5

5 MTKRKKKTINLNIQDAQKRTALHWACVNGHEEVVTFVLDRKCQLDVLGEHRTPLMKALQCHQEACANILIDSGADINLVDV
YGNMALHYAVYSEILSVVAKLLSHGAVIEVHNKASLTPLLLSITKRSEQIVEFLLIKNNANANAVNKYKCTALMLAVCHGSS
EIVGMLLQQNVDFVFAADICGVTAEHYAVTCGFHHIHEQIMEYIRKLSKNHQNTNPEGTSAGTPDEAAPLAERTPDTAESLV
EKTTPDEAAPLVERTPDTAESLVEKTPDEAASLVEGTSDKIQCLEKATSGKFEQSAEETPREITSPAKETSEKFTWPAKGRP
RKIAWEKKEDTPREIMSPAKETSEKFTWAAKGRPRKIAWEKKETPVKTGCVARVTSNKT KVLEKGRSKMIACPTKESSTKA
SANDQRFPSSESKQEEDEEYS CDSRSLFESSAKIQVCI PESIYQK VMEINREVEEPPKKPSAFKPAIEMQNSVPNKAFELKN
10 EQTLRADPMFPPESKQKDYEENS WDSESLCETVSQKDVCLPKATHQKEIDKINGKLEESPNKDGLLKATCGMKVSIPTKAL
ELKDMQTFKAEP PGKPSAFEPATEM QKSVPNKALELKNEQTRADEILPSESKQKDYEENS WDTESLCETVSQKDVCLPKA
AHQKEIDKINGKLEGSPVKDGLL KANCGMKVSIPTKALELMDMQTFKAEPPEKPSAFEPAIEMQKSVPNKALELKNEQTLR
ADEILPSESKQKDYEESSWDSESLCETVSQKDVCLPKATHQKEIDKINGKLEESPDNDGFLKAPCRMKVSIPTKALELMDM
QTFKAEPPEKPSAFEPAIEMQKSVPNKALELKNEQTLRADQMFPSESKQKVEENS WDSESLRETVSQKDVCPKATHQKE
15 MDKISGKLEDSTSLSKILD TVHSCERARELQKDHCEQRTGKMEQM KKKFCVLKKKLSEAKEIKSQLENQKV KWEQELCSVR
LTLNQEEEEKRRNADILNEKIREELGRIBEQHRKELEV KQLEQALRIQDI ELKS VESNLNQVSH THENENYLLHENCMLKK
EIAMLKLEIATLKHQYQEKENKYFEDIKILKEKNAELQMTLKLKEESLTKRASQYSGQLKVLI AENTMLTSKLKEKQDKEI
LEAEIESHHPRLASAVQDHDQIVTSRKSQEP AFHIA GDA CLQRKMNV DVSSTIYNNEVLHQPLSEAQRKSKSLKINLNYAG
DALRENTLVSEHAQRDQRETQCMKEAEHMYQNEQDNVNKHTEQQESLDQKLFQLQSKNMWLQQQLVHAHKKADNKS KITI
20 DIHFLEKMQHLLKEKNEEIFNYYNNHLKNRIYQYEKEKAETENS